

Title (en)
VARIABLE-DENSITY COMPOSITE ARTICLES AND METHOD

Title (de)
VERBUNDARTIKEL VON VARIABLER DICHTUNG UND VERFAHREN

Title (fr)
OBJETS COMPOSITES À DENSITÉ VARIABLE ET MÉTHODE ASSOCIÉE

Publication
EP 2969313 B1 20180509 (EN)

Application
EP 14729490 A 20140315

Priority

- US 201361802277 P 20130315
- US 2014000050 W 20140315

Abstract (en)
[origin: US2014272451A1] A metal matrix composite article that includes at least first and second regions, first and second reinforcement materials, a metal matrix composite material occupying the second region of the body and comprising a metal matrix material and the second reinforcement component, a preform positioned in the first region of the body and infiltrated by at least the metal matrix material of the metal matrix composite material. The article further includes a transition region located proximate an outer surface of the preform that includes a distribution of the second reinforcement component comprising a density increasing according to a second gradient in a direction toward the outer surface of the preform.

IPC 8 full level
B22D 19/02 (2006.01); **B22D 19/14** (2006.01); **B22F 3/22** (2006.01); **B29C 70/88** (2006.01); **B32B 5/14** (2006.01); **C04B 38/00** (2006.01); **C22C 32/00** (2006.01); **C22C 47/12** (2006.01); **C22C 49/04** (2006.01); **C22C 49/06** (2006.01); **F16D 65/12** (2006.01)

CPC (source: EP US)
B22D 19/02 (2013.01 - EP US); **B22D 19/14** (2013.01 - EP US); **B22F 3/22** (2013.01 - EP US); **B29C 70/887** (2013.01 - US); **B32B 5/14** (2013.01 - US); **C22C 32/00** (2013.01 - EP US); **C22C 47/12** (2013.01 - EP US); **C22C 49/04** (2013.01 - EP US); **C22C 49/06** (2013.01 - US); **F16D 65/125** (2013.01 - US); **B22F 2999/00** (2013.01 - EP US); **F16D 2200/0047** (2013.01 - US); **F16D 2200/0065** (2013.01 - US); **F16D 2200/0082** (2013.01 - US); **Y10T 428/12458** (2015.01 - EP US)

C-Set (source: EP US)
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